F.S.M. Traffic Study Guidelines (12/07) Loudoun County Virginia Checklist for Application Acceptance Office of Transportation Services Page 1 of 4 PHRAA trussic Statement dorted Feb. 26, 2009 Application Name: Potomac Rend. Special Exception

Application Type: Special Exception

of Guidelines Satisfied: 13 of 13

Date: 3/10/09

Reviewer: Secretary Reviewer: 13 period Reviewer: 13 period Reviewer: 13 period Reviewer: 15 period Review Accept or Reject: Accept Comment: Roadways internal or adjacent to the development site shall be included in (1) Study Area: the traffic study. The study area should be defined at the scoping meeting and as a guideline should include other external roads to the extent that the project's generated traffic is anticipated to exceed 10 percent of the road's current/existing traffic volumes (at the time of application). Does Study Meet Guidelines? ____ Comments: ____ (2) Traffic Count Locations: Traffic counts are required on the adjacent roads, the adjacent intersections beyond the project's frontage on adjacent roads in the study area. The AM/PM peak period traffic counts shall not be more than twelve (12) months old at the time of the application submission. Twenty-four (24) hour weekday traffic counts are also required for roadway segments. Does Study Meet Guidelines? Comments: A.A. (3) Trip Generation: As a general guide to vehicle trip generation, the latest edition of the Institute of Transportation Engineer's (I.T.E.). Trip Generation Report shall be used. These rates may be supplemented by additional information provided by the County. If the applicant chooses to use different rates, they shall be documented and agreed to at the scoping meeting prior to their use in the traffic analyses. Primary trip reductions associated with passby trips and methodologies for trip reductions associated with passby trips shall be discussed and agreed upon at the scoping meeting. Does Study Meet Guidelines? Yes Comments:

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Loudoun County Virginia Office of Transportation Services

provide existing and projected traffic volumes, with and without the subject project/average Daily Traffic (ADT), as well as AM and PM peak hours. The peak hour project/individual land use(s) (as given in the ITE Trip Generation Report) should be a the corresponding AM/PM existing peak hour of the adjacent roadway traffic volumes show the worst case scenario), if the peak hour of the project/individual land use(s) generator is greater than the peak hour of the adjacent roadway (per ITE Trip Generator). The existing peak hour of traffic on the roads adjacent to the subject project so be identified. These traffic volumes shall be provided at roadway intersection commercial or private accessways/entrances.	ect, for the dded to mes (to for the neration te shall
Does Study Meet Guidelines? Comments:	
(5) LOS Analysis: Level of Service (LOS) calculations for existing and projected common with and without the subject project, for highway segments, intersection legs, and enshall be provided. Calculations shall be in accordance with the Highway Capacity (HCM) and/or the Highway Capacity Software (HCS), or as may be agreed at the semeeting. Traffic volumes and LOS information shall be provided for each produced project completion. Projections shall made for date of completion plus ten (10) years or to an agreed upon forecast year.	trances Manual scoping ase of
Does Study Meet Guidelines? Yes Comments: Se. 78	
(6) Minimum Roadway/Intersection LOS Standards: Recommendations for improvements to the road network links in order to maintain an acceptable LOS (mi LOS "D") shall be provided. For each phase up to and including buildout, a mi approach and overall LOS "D" at intersections shall apply.	- nimum
Does Study Meet Guidelines? Yes Comments: See people 2	

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(7)	Background	Traffic	Assumptions:	Assumptions	which	determine	projected	background
			gh traffic growt					
			. The sources f					
	or more of the			_				

- The Loudoun County Growth Summary or similar documents from Loudoun County.
- The Loudoun County transportation model which incorporates COG's Cooperative Forecasts for Loudoun County.

Specific other approved development names and respective development square footage or

Approved developments in the vicinity of the proposed development.

residential units in the study shall be provided. (8) Traffic/Trip Distribution: Directional trip distribution information shall be provided for project entrances and collector and arterial intersections within the study area for the phases and categories (e.g., residential, office, retail, industrial and institutional) of development. Does Study Meet Guidelines? Yes Comments: A. A. / See pers 8 (9) LOS Calculations Assumptions: Traffic counts and LOS worksheets and projected traffic volume LOS analyses, using agreed upon analysis techniques, including existing AM/PM peak hour signal timing, shall be included as a part of the traffic study. Does Study Meet Guidelines? Ves Comments: L.A. Mode Choice: Modal split information shall be provided for the phases of the analysis, with sources of information identified (e.g., COG model). Does Study Meet Guidelines? Yes Comments: 1.A.

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Does	Study Meet Gui	delines? \/a=	Comments:	9	3
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Does	Study Meet Gui	delines? yes	_ Comments:	N. A.	
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chara	cteristics of the	proposed bicyc	le and pedestria	n accommodation	ns shall be provided.
such	separate bicycl	le accommodat	ions (e.g., stri	ped lanes or m	nulti-purpose trails) a conal characteristics sha
be pr	ovided to identi	fy the transpor	tation options t	hat these accomm	modations provide (e.g
_	trian access to ctions to adjace		_		ary school, inter-parc
	Study Meet Gui	delines?	_ Comments:	N.A.	

lmm/

G:\LCG\OTS\FSM Traffic Study Scoping Documents\FSM Checklist for Application (12-07 FSM Revisions).doc

Date: February 26, 2009

Mr. George Phillips
County of Loudoun
Office of Transportation Services
1 Harrison Street, SE, 4th Floor
Leesburg, VA 20177



CORPORATE:

Chantilly

Re: POTOMAC RADIO SPECIAL EXCEPTION TRAFFIC STATEMENT PHR+A F- 10347-4-0

Dear Mr. Phillips:

PLANNING DEPARTMENT

Visatina Offices Chantilly Charlottesville Fredericksburg Harrisanburg Leesburg Newbort News

Newport New Norfolk Winchester Woodbridge

Laggrafories
Chantilly
Fredericksburg

Magitane Officest Boltimore Columbia Frederick Germantown

Hallywood Hunt Valley Williamsport

PENNSTIVANIA OFFICE: Allentown T 800:550.PHRA

T 703,449 6700 F 703,449 6713 14532 tee Rood Chantilly, VA 20151,1679 Per our phone conversation, the following addresses the County's request for a Traffic Statement to cover the above project; please find attached material to assist in your deliberations.

PHR+A has used the standard Loudoun County Traffic Study Guidelines to produce a summary of the aspects examined in this traffic statement. The attached Figures summarize the existing traffic and access situation in the field, based on:

Figure A: Illustrates the general location of the Radio Tower, which is east of the existing Loudoun County Parkway.

Figure B: Illustrates the current traffic conditions in 2009.

Figure C: Illustrates the existing access points off Loudoun County Parkway (unfortunately the aerial photo base is outdated, and the Loudoun Water site is now completed).

PHR+A undertook PM Peak counts at Aquiary Way (the main access road into Loudoun Water) on Wednesday February 18, 2009 and found that the existing PM Peak turning volumes onto Loudoun County Parkway, were 51 vph to the north and 53 vph to the south at Aquiary Way. Very little traffic was observed at the Truck Access point further to the north. The volume along Loudoun Parkway was 407 vph southbound and 731 vph northbound. With turn lane provisions at the Truck Access point (i.e. Left and Right Turn lanes), no delays were observed.

Figure D: Illustrates the existing access point for trucks, via Loudoun County Parkway.

Mr. George Phillips Loudoun County Re: Potomac Radio Special Exception Date: February 26, 2009 Page 2 of 2

Traffic Statement Summary

1. Access is readily available to the Potomac Radio Tower site through the existing Truck Access point north of Aquiary Way (see attached Figure B) off Loudoun County Parkway.



- 2. The current traffic volume on this section of Loudoun County Parkway is relatively low at the present time, but the access points have been planned to accommodate future traffic generated by the parcels. In this case, the trips generated are very low during the construction phase (because of the use of prefabricated sections), thus reducing the time to erect. Based on information provided by the Owner, once erected the Tower and facility will be inspected on a regular basis by one vehicle, typically at monthly intervals. Additional trips may be required if emergency service is required.
- 3. The erection of the Radio Tower will thus not cause any undesirable impact on the existing road network with the construction of Loudoun County Parkway to four (4) lanes of the CTP six (6) lane section, and adequate turns provided for existing truck access to Loudoun Water, additional mitigation is not required.

We trust this information assists the County deliberations on this matter.

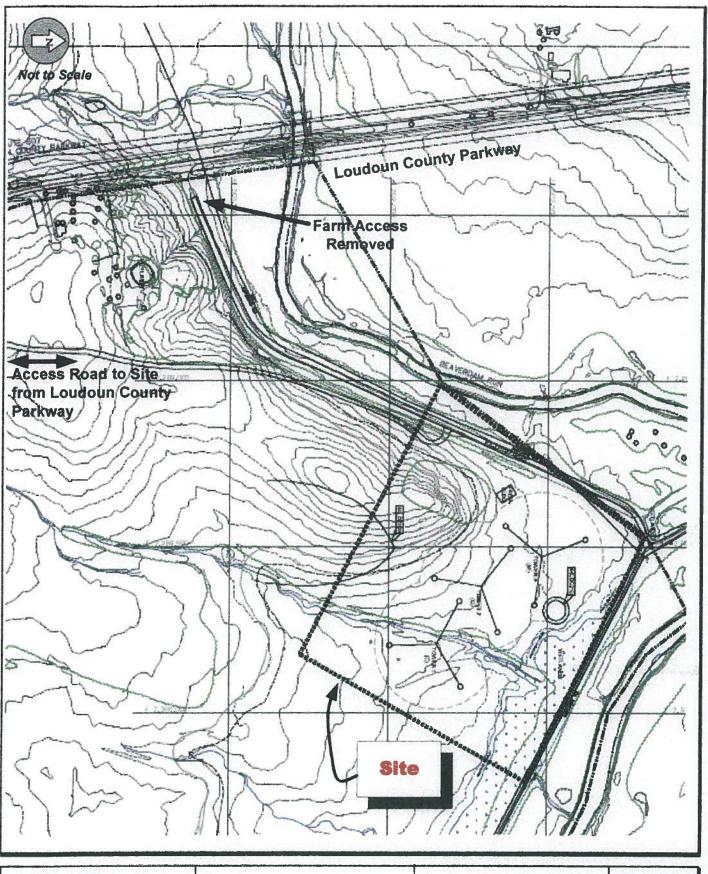
Respectfully Submitted,
PATTON HARRIS RUST & ASSOCIATES

Peter J. Steele

Senior Transportation Planner

Attachment Figures A, B, C, & D and summary based on standard Loudoun County Traffic Study Guidelines.

Cc: Mark A. Thomas



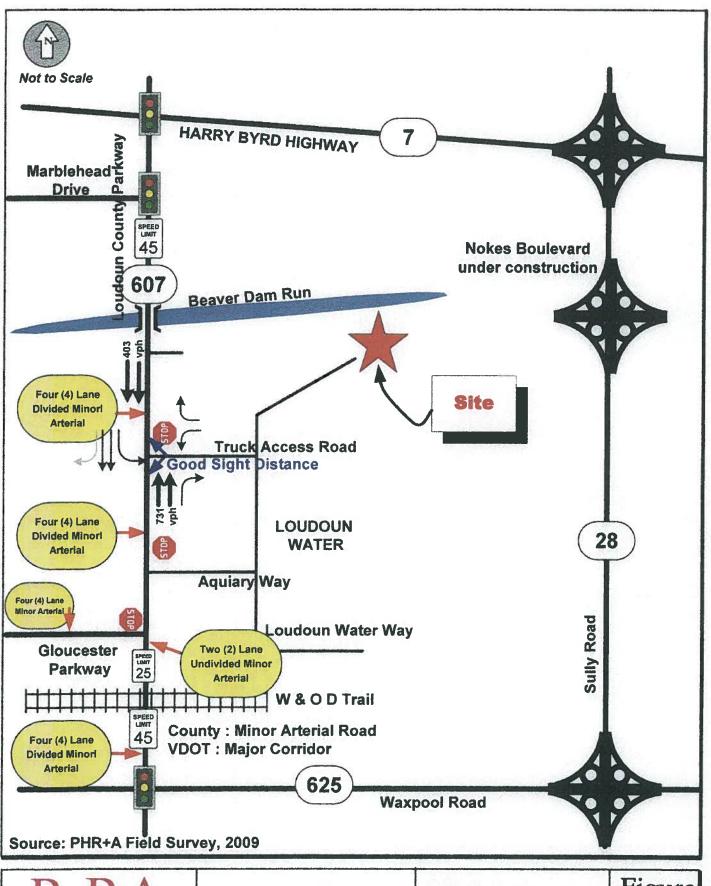
PHR+A

Potomac Radio

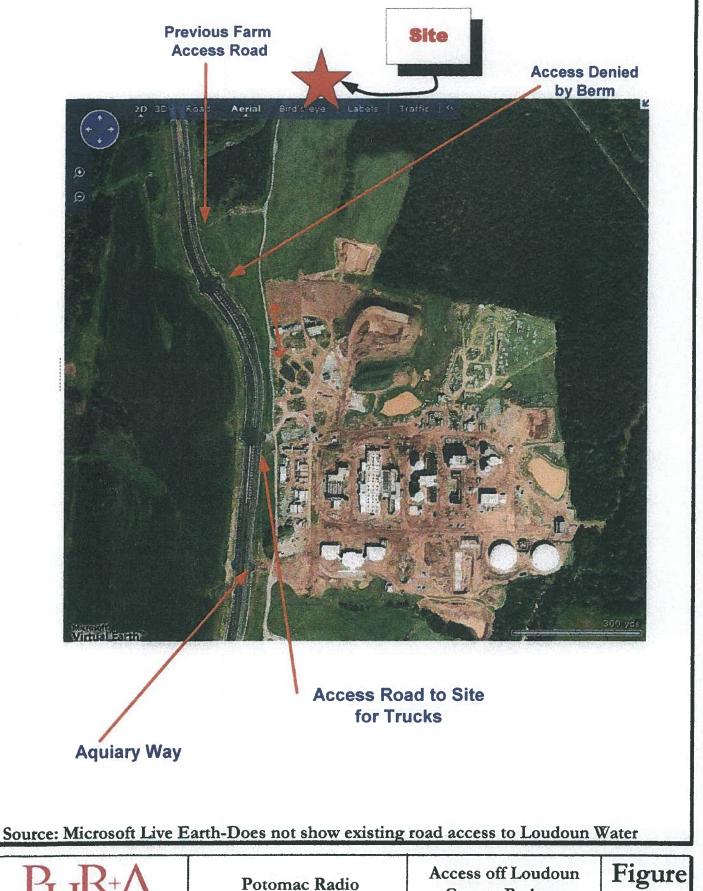
February, 2009

Site Location

Figure
10347-4-0 A







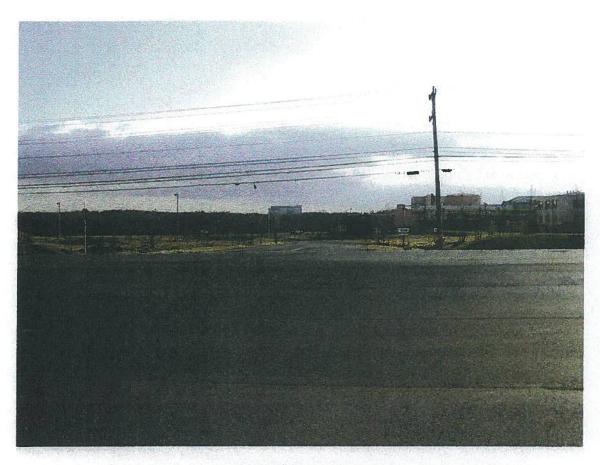


Potomac Radio

February, 2009

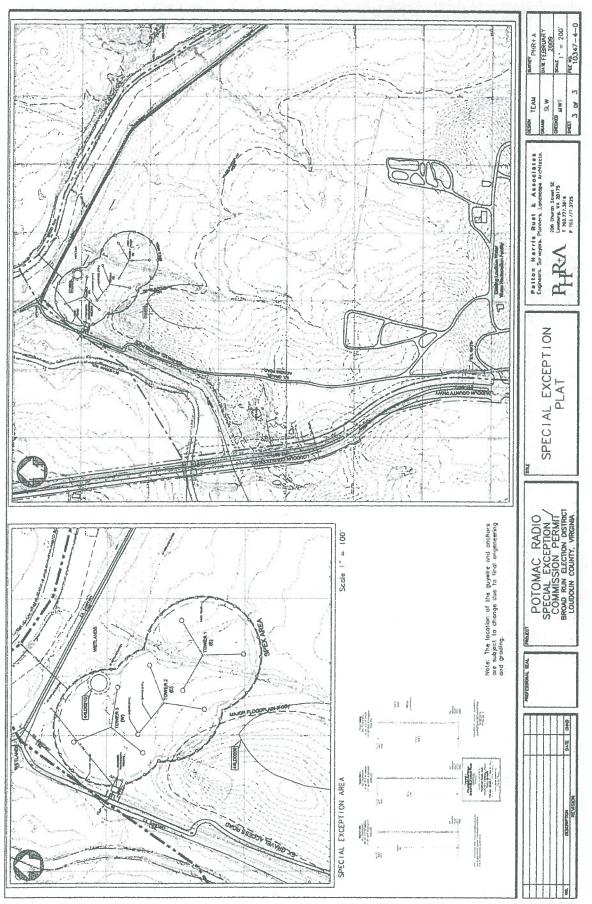
Access off Loudoun County Parkway

10347-4-0



Access off Loudoun County Parkway through the existing Truck Access Road (looking East). Loudoun County Parkway is four (4) lanes divided at this point, with separate Left and Right Turn lanes into the site.





Application Name: Potomac Radio **Date:** 2/13/09

Application Type: Site Plan

Attendees: (by verbal agreement) George Phillips (Loudoun County) via phone agreed to

Traffic Statement on access, trips and safety issues.

(1) <u>Study Area</u>: Comments: Loudoun County Parkway adjacent to access to Loudoun Water (Aquairy Way), Ashburn

- (2) <u>Traffic Count Locations</u>: Comments: Will provide all site entrance in the PM only. Examination of impact during construction Phase and also regular monthly maintenance visits.
- (3) <u>Trip Generation</u>: Comments: ITE Trip Generation Manual rates for Radio Tower not available. Applicant notifies that construction period of approximately one month will involve relatively few construction vehicles during normal working hours. Once completed the Tower needs regular maintenance visits (say once every six months). Access is provided through the truck access off Loudoun County Parkway into the Loudoun Water site.
- (4) <u>Traffic Volume Projections</u>: Comments: Not applicable due to the short period of construction and then only on-going maintenance visits to the site.
- (5) LOS Analysis: Comments: Given the low volume of vehicles involve, and the nature of the current roadway network (i.e. still being developed) there will be no change in Level of Service caused by this project; although given the high speed of some vehicles in the 45 MPH posted area, the risk of accidents remains a slight probability.
- (6) <u>Minimum Roadway/Intersection LOS Standards</u>: Comments: The attached volumes indicate that the addition of a few vehicles will have negligible impact on the operation at this intersection.
- (7) <u>Background Traffic Assumptions</u>: Comments: This section of the Parkway is constructed at four (4) lane Minor Arterial with appropriate turn provisions. Parkway is posted at 45 MPH.
- (8) Traffic/Trip Distribution: Comments: n/a
- (9) LOS Calculations Assumptions: Comments: n/a
- (10) Mode Choice: Comments: n/a
- (11) <u>Safety Locations</u>: Comments: Site inspection indicates that there is adequate sight distance at the throat of this intersection in both directions; although the high speed of some vehicles along Loudoun County Parkway is of concern. This will change over time as more vehicles use this route, and thus the link will come under greater scrutiny by Loudoun Police.
- (12) Traffic Mitigation Measures: Comments: n/a
- (13) Bicycle & Pedestrian Accommodations: Comments: n/a